



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, Idaho 83706-1255 • (208) 373-0502

Dirk Kempthorne, Governor
C. Stephen Allred, Director

January 17, 2003

Certified Mail No. 7000 1670 0013 9128 9059

Tim Degarmo
St. Alphonsus Regional Medical Center
1055 N. Curtis Road
Boise, ID 83706-1370

RE: AIRS Facility No. 001-00027, St. Alphonsus Medical Center, Boise
Final Tier II Operating Permit and Permit to Construct

Dear Mr. Degarmo:

The Department of Environmental Quality (Department) is issuing Tier II Operating Permit and Permit to Construct No. 001-00027 for the St. Alphonsus Regional Medical Center facility in accordance with the *Rules for the Control of Air Pollution in Idaho*, IDAPA 58.01.01.400 - 470 and 58.01.01.200 - 228, respectively.

The enclosed permit is effective immediately and is based on the information contained in your permit application and all relevant comments received during the public comment period.

Mike McGown of the Boise Regional Office will contact you regarding a meeting to discuss the permit terms and requirements. The Department recommends the following representatives attend the meeting: your facility's plant manager, responsible official, environmental contact, and any operations staff responsible for day-to-day compliance with permit conditions.

Pursuant to IDAPA 58.01.23, you, as well as any other entity, may have the right to appeal this final agency action within 35 days of the date of this decision. However, prior to filing a petition for a contested case, I encourage you to call Mike Simon at (208) 373-0502 to address any questions or concerns you may have with the enclosed permit.

Sincerely,


Katherine B. Kelly
Administrator
Air Quality Division

KK/KB/sm Project No. T2-010115 000730 G:\Air Quality\Stationary Source\SS Ltd\T2\St Als\Final Prep\T2-010115 St. Al Final ltr.doc

Enclosure

cc: Laurie Kral, EPA Region 10
Mike McGown, Regional Office



**Air Quality
TIER II OPERATING PERMIT
and
PERMIT TO CONSTRUCT**

**State of Idaho
Department of Environmental Quality**

PERMIT NO.: 001-00027

AQCR: 64

CLASS: SM

SIC: 8062

ZONE: 11

UTM COORDINATE (km): 560.2 , 4828.2

1. PERMITTEE

Saint Alphonsus Regional Medical Center

2. PROJECT

Tier II operating permit and permit to construct

3. MAILING ADDRESS

1055 N. Curtis Road

CITY

Boise

STATE

ID

ZIP

83706-1370

4. FACILITY CONTACT

Tim Degarmo

TITLE

Manager, Plant Operations

TELEPHONE

208-367-2726

5. RESPONSIBLE OFFICIAL

Tim Degarmo

TITLE

Manager, Plant Operations

TELEPHONE

208-367-2726

6. EXACT PLANT LOCATION

1055 N. Curtis Road, Boise, Idaho

COUNTY

Ada

7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS

General medical and surgical hospital

8. PERMIT AUTHORITY

This permit to construct and Tier II operating permit is issued according to the *Rules for the Control of Air Pollution in Idaho*, IDAPA 58.01.01.200-228 and IDAPA 58.01.01.400-470, respectively. This permit pertains only to emissions of air contaminants regulated by the state of Idaho and to the sources specifically allowed to be operated by this permit. Only the terms and conditions pertaining to Tier II operating permit requirements are subject to the expiration date of this permit.

This permit is not transferable to another person, place, or piece or set of equipment and will expire if construction has not begun within two years of its issue date or if construction is suspended for one year.

This permit has been granted on the basis of design information presented in the application and the Idaho Department of Environmental Quality's technical analysis of the supplied information. Changes in design or equipment that result in any change in the nature or amount of emissions may be considered a modification. Modifications are subject to Department review in accordance with IDAPA 58.01.01.200.


KATHERINE B. KELLY, ADMINISTRATOR, AIR QUALITY DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

DATE ISSUED: January 17, 2003

DATE EXPIRES: January 17, 2008

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ACRONYMS, UNITS AND CHEMICAL NOMENCLATURE

ASTM	American Society for Testing and Materials
AQCR	Air Quality Control Region
Btu	British thermal units
CO	carbon monoxide
Department	Department of Environmental Quality
dscf	dry standard cubic feet
EPA	Environmental Protection Agency
gr	grain (1 lb = 7,000 grains)
IDAPA	A numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
kW	kilowatt
km	kilometer
lb/hr	pound per hour
MMBtu/hr	million British thermal units per hour
NO _x	nitrogen oxides
O&M	operations and maintenance
PM	particulate matter
PM ₁₀	particulate matter with an aerodynamic diameter of 10 micrometers or less
SIC	Standard Industrial Classification
SM	synthetic minor
SO ₂	sulfur dioxide
T/yr	tons per year
UTM	Universal Transverse Mercator
VOC	volatile organic compound

AIR QUALITY TIER II OPERATING PERMIT AND PERMIT TO CONSTRUCT No. 001-00027

Permittee: Saint Alphonsus Regional Medical Center
Location: Boise, Idaho

Date Issued: January 17, 2003
Date Expires: January 17, 2003

1. PERMIT SCOPE**Purpose**

- 1.1 The purpose of this Tier II operating permit and permit to construct is to permit sources constructed without a permit, limit facility emissions to below major facility classification, and to protect ambient air quality standards.
- 1.2 This permit incorporates and replaces the following permit:
- Tier II Operating Permit No. 001-00027, issued January 22, 1996, and revised March 15, 1996

Regulated Sources

- 1.3 Table 1.1 below lists all sources of emissions that are regulated in this permit:

Table 1.1 REGULATED EMISSION SOURCES

Permit Section	Source Description	Emissions Control(s)
3	Boiler No. 1 – Cleaver Brooks natural gas-fired, No. 2 fuel oil back up, 31.5 MMBtu/hr rated heat input capacity, model D-52; installed 1972	None
3	Boiler No. 2 – Cleaver Brooks natural gas-fired, No. 2 fuel oil back up, 31.5 MMBtu/hr rated heat input capacity, model D-52; installed 1972	None
3	Boiler No. 3 – Cleaver Brooks natural gas-fired, No. 2 fuel oil back up, 12.8 MMBtu/hr rated heat input capacity, model D-26; installed 1980	None
3	Boiler No. 5 – Bryan Steam natural gas-fired, No. 2 fuel oil back up, 5.0 MMBtu/hr rated heat input capacity, model RV-500; installed 1993	None
3	MOBV1 Boilers Nos. 1 and 2, 1.8 MMBtu/hr each Lochinvar CHN 1800; installed 2001	None
	MOBV1 Boiler No. 3, 500,000 Btu/hr, Lochinvar CFN501PM; installed 2001	None
4	Emergency Generator No. 1 – Caterpillar diesel-fired, 675 kW rated output capacity, model D398	None
4	Emergency Generator No. 2 – Caterpillar diesel-fired, 750 kW rated output capacity, model D349-SRCR	None
4	Emergency Generator No. 3 – Kohler diesel-fired, 300 kW rated output capacity, model 300 R0Z0	None
4	Emergency Generator No. 4 – Detroit Diesel diesel-fired, 750 kW rated output capacity, model 573RS17034BP	None
4	Emergency Generator No. 5 – Kohler diesel-fired, 80 kW rated output capacity, model 80R0ZJ81	None
4	Emergency Generator No. 6 – Kohler diesel-fired, 600 kW rated output capacity, model 600R0ZD71	None
4	Emergency Generator No. 7 – Kohler diesel-fired, 200 kW, model 200 R0ZD	None
4	Emergency Generator No. 8 – Kohler diesel-fired, 600 kW, model 600R0ZD-4	None
4	Emergency Generator No. 9 – Kohler diesel-fired, 30 kW, model 30 RE0ZJB	None

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Unregulated Sources

1.4 Table 1.2 below lists sources of emissions that do not warrant regulation in this permit.

Table 1.2 EMISSIONS SOURCES

Source Description
Sterilizer, AMSCO, model Eagle E3048-1
Paint Booth, Devibis, model DW6305
Diesel fuel storage tanks

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2. FACILITY-WIDE CONDITIONS

- 2.1 All reasonable precautions shall be taken to prevent PM from becoming airborne in accordance with IDAPA 58.01.01.650-651.

[IDAPA 58.01.01.650-651, 5/1/94]

Visible Emissions

- 2.2 No person shall discharge any air pollutant to the atmosphere from any point of emission for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as determined by procedures contained in IDAPA 58.01.01.625. These provisions shall not apply when the presence of uncombined water, NO_x, and chlorine gas are the only reason(s) for the failure of the emission to comply with the requirements of this section.

[IDAPA 58.01.01.625, 5/1/94]

Excess Emissions

- 2.3 The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions due to startup, shutdown, scheduled maintenance, safety measures, upsets, and breakdowns.

Reports and Certifications

- 2.4 Any reporting required by this permit, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certifications, shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete. Any reporting required by this permit shall be submitted to the following:

Air Quality Permit Compliance
Department of Environmental Quality
Boise Regional Office
1445 N. Orchard
Boise, ID 83706-2239

[IDAPA 58.01.01.405.01, 5/1/94]

Monitoring and Recordkeeping

- 2.5 The permittee shall maintain sufficient recordkeeping to assure compliance with all of the terms and conditions of this operating permit. Records of monitoring information shall include, but not be limited to the following: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the company or entity that performed the analyses; (d) the analytical techniques or methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to Department representatives upon request.

[IDAPA 58.01.01.405.01, 5/1/94]

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Fuel-burning Equipment

- 2.6 The permittee shall not discharge to the atmosphere from any fuel-burning equipment PM in excess of 0.015 gr/dscf of effluent gas corrected to 3% oxygen by volume for gas or 0.050 gr/dscf of effluent gas corrected to 3% oxygen by volume for liquid fuel.

[IDAPA 58.01.01.676-677, 5/1/94]

Sulfur Content

- 2.7 No person shall sell, distribute, use, or make available for use any distillate fuel oil containing more than the following percentages of sulfur:

- ASTM Grade 1 fuel oil - 0.3% by weight
- ASTM Grade 2 fuel oil - 0.5% by weight
- Residual fuel oil (ASTM Grade 4, 5, and 6) – 1.75% by weight

[IDAPA 58.01.01.728, 5/1/94]

Air Stagnation Advisory Days

- 2.8 The permittee shall comply with the Air Pollution Emergency Rules in IDAPA 58.01.01.550 - 562.

[IDAPA 58.01.01.550, 5/1/94]

Obligation to Comply

- 2.9 Receipt this permit shall not relieve the owner or operator of the responsibility to comply with all applicable local, state, and federal rules and regulations.

[IDAPA 58.01.01.406, 5/1/94]

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Permittee: Saint Alphonsus Regional Medical Center
Location: Boise, Idaho

Date Issued: January 17, 2003
Date Expires: January 17, 2003

3. BOILERS**3.1 Process Description**

The primary purpose of the boilers is to generate steam for space heating.

3.2 Control Description

Emissions from the boilers are uncontrolled.

Emissions Limits**3.3 Emissions Limits**

Emissions of PM, PM₁₀, NO_x, CO, and SO₂ from the boilers shall not exceed any corresponding emissions rate limits listed in the following table:

Table 3.1 BOILER EMISSIONS LIMITS

Source Description	PM		PM ₁₀		SO ₂		NO _x		CO	
	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Boilers	1.96	3.01	1.0	2.84	41.6	7.69	11.9	19.6	7.0	30.0

[IDAPA 58.01.01.211.01, 5/1/94]

Operating Requirements**3.4 Fuel for Boilers**

The primary fuel for boilers No. 1, 2, 3, and 5 shall be natural gas. The secondary fuel shall be No. 2 fuel oil. The fuel for the MOBV1 boilers is limited to natural gas.

[IDAPA 58.01.01.405.01, 5/1/94]

3.5 Operation Time on No. 2 Fuel Oil

The maximum operation time of boilers No. 1, 2, 3, and 5 when operating on No. 2 diesel fuel oil shall not exceed 360 hours each in any 12-month period.

[IDAPA 58.01.01.211.01, 5/1/94]

3.6 Operation on No. 2 Fuel Oil During Atmospheric Stagnation Advisory Periods

Boilers No. 1,2,3, and 5 shall not be operated on No. 2 fuel oil, except only during emergencies, during any period in which an Atmospheric Stagnation Advisory and/or a mandatory Wood Stove Curtailment have been declared in Boise by the Department.

[IDAPA 58.01.01.405.01, 5/1/94]

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Monitoring and Recordkeeping Requirements

3.7 Operation on No. 2 Fuel Oil

The permittee shall monitor and record the date and the number of hours each boiler operates on No. 2 fuel oil.

[IDAPA 58.01.01.211.01, 5/1/94]

3.8 Operations and Maintenance Manual Requirements

At all times, the permittee shall maintain in good working order and operate, as efficiently as practicable, the natural gas- and fuel oil-fired boilers. An O&M manual shall be developed and followed by the permittee and shall be submitted to the Department for approval within 60 days of issuance of this permit. The O&M manual shall be updated as necessary and, shall include at a minimum, the most recent general descriptions of the equipment; the normal operating conditions and procedures for the boiler; startup, shutdown, and maintenance procedures; upset conditions guidelines; and corrective action procedures.

[IDAPA 58.01.01.405.01, 5/1/94]

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EMERGENCY GENERATORS

4.1 Process Description

The primary purpose of these sources is the generation of electricity for the hospital in the event of a power interruption.

4.2 Control Description

Emissions from the diesel generator engines are uncontrolled.

Emission Limits

4.3 Emission Limits

Emissions of NO_x shall not exceed 166 lb/hr or 10.4 T/yr.

[IDAPA 58.01.01.211.01, 5/1/94]

Operating Requirements

4.4 Operating Schedule

The operation of each emergency diesel generator shall not exceed a maximum of 125 hours in any consecutive 12-month period. This limit shall not apply during times of electric power outages to the hospital.

[IDAPA 58.01.01.211.01, 5/1/94]

4.5 Operation During Atmospheric Stagnation Advisory Periods

The emergency generators shall not be operated, except for power outages, during any period in which the Department has declared an Atmospheric Stagnation Advisory or a mandatory Wood Stove Curtailment in Boise.

[IDAPA 58.01.01.405.01, 5/1/94]

4.6 Fuel Specification

The emergency diesel generators shall use No. 2 diesel fuel exclusively.

[IDAPA 58.01.01.211.01, 5/1/94]

Monitoring and Recordkeeping Requirements

4.7 Emergency Generator Operations

The permittee shall monitor and record the date, number of hours of operation, and reason for the operation of each emergency generating set. A compilation of the most recent five years of data shall be kept on site at all times and shall be made available to Department representatives upon request.

[IDAPA 58.01.01.211.01, 5/1/94]

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Permittee: Saint Alphonsus Regional Medical Center
Location: Boise, Idaho

Date Issued: January 17, 2003
Date Expires: January 17, 2003

5. SUMMARY OF EMISSION RATE LIMITS

The following table provides a summary of all emission rate limits required by this permit:

Table 5.1 SUMMARY OF ALL EMISSION RATE LIMITS

Saint Alphonsus Regional Medical Center, Boise Emissions Limits ^a – Hourly (lb/hr) and Annual ^b (T/yr)								
Source Description	PM ₁₀ ^c		NO _x		CO		SO ₂	
	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Boilers	1.0	2.84	11.9	19.6	7.0	30.0	41.6	7.69
Emergency generators			166	10.4				

^aAs determined by a pollutant-specific EPA reference method, a Department-approved alternative, or as determined by the Department's emissions estimation methods used in this permit analysis.

^bAs determined by multiplying the actual or allowable (if actual is not available) pound-per-hour emission rate by the allowable hours per year that the process(es) may operate(s), or by actual annual production rates.

^cIncludes condensibles.

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6. FACILITY-WIDE EMISSIONS INVENTORY

Table 6.1 provides a summary of the emissions inventory of the facility based on potential to emit. The emissions inventory table is provided for informational purposes only.

Table 6.1 EMISSION INVENTORY BASED ON PTE

Source Description	PM ₁₀	NO _x	CO	VOC	SO ₂
	T/yr	T/yr	T/yr	T/yr	T/yr
Boilers	2.84	19.6	30.0	1.95	7.69
Emergency generators	0.73	10.4	2.23	0.84	0.68
Total	2.57	30.0	32.2	1.95	8.37

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Permittee: Saint Alphonsus Regional Medical Center
Location: Boise, Idaho

Date Issued: January 17, 2003
Date Expires: January 17, 2003

7. PERMIT GENERAL PROVISIONS

1. All emissions authorized herein shall be consistent with the terms and conditions of this permit. The emission of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the *Rules for the Control of Air Pollution in Idaho*, and the Environmental Protection and Health Act, Idaho Code 39-101 et seq.
2. The permittee shall at all times (except as provided in the *Rules for the Control of Air Pollution in Idaho*) maintain and operate in good working order all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable laws for the control of air pollution.
3. The permittee shall allow the Director, and/or his authorized representative(s), upon the presentation of credentials:
 - To enter upon the permittee's premises where an emissions source is located, or in which any records are required to be kept under the terms and conditions of this permit; and
 - At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit, to inspect any monitoring methods required in this permit, and to require stack emissions testing (i.e., performance tests) in conformance with state-approved or accepted EPA procedures when deemed appropriate by the Director.
4. Except for data determined to be confidential under Section 9-342A, *Idaho Code*, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the appropriate regional office of the Department of Environmental Quality.
5. Nothing in this permit is intended to relieve or exempt the permittee from compliance with any applicable federal, state, or local law or regulation, except as specifically provided herein.
6. In the event of any change in control or ownership of source(s) from which the authorized emissions emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Director.
7. This permit shall be renewable on the expiration date, provided the permittee submits any and all information necessary for the Director to determine the amount and type of air pollutants emitted from the equipment for which this permit is granted. Failure to submit such information within 60 days after receipt of the Director's request shall cause the permit to be void.
8. The Director may require the permittee to develop a list of operation and maintenance procedures to be approved by the Department. Such list of procedures shall become a part of this permit by reference, and the permittee shall adhere to all of the operation and maintenance procedures contained therein.
9. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.